BIRCH, STEWART, KOLASCH & BIRCH, LLP

PLEASE NOTE: YOU MUST COMPLETE THE FOLLOWING P.O. Box 747 • Falls Church, Virginia 22040-0747 Telephone: (703) 205-8000 • Facsimile: (703) 205-8050

COMBINED DECLARATION AND POWER OF ATTORNEY FOR PATENT AND DESIGN APPLICATIONS

As a below named inventor, I hereby declare that: my residence, post office address and citizenship are as stated next to my name; that I verily believe that I am the original, first and sole inventor (if only one inventor is named below) or an original, first and joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

| Insert Title: | STIRLING ENGINE | | | | | | | | |
|--|---|--|---|---|--|--|--|--|--|
| Fill in Appropriate | the specification of which is attached hereto. If not attached hereto, the application is identified by the attorney docket number as set | | | | | | | | |
| | forth above and/or the following: | | | | | | | | |
| Information - | The specification was filed onas | | | | | | | | |
| For Use Without | United States A | pplication Nun | nber | | | (: (1: 1-1- | ز <u>ــــــــــــــــــــــــــــــــــــ</u> | | |
| Specification Attached: | and amended of | n | ·ulu 20, 2004 | (if applicable) and/or | | | | | |
| Attacheu: | International Ar | n was med on <u>o</u> | ther PCT / IP2004 /010296 | | (if applicable) and/or as PCT as and Was | | | | |
| | amended on | pheadomaan | 1001 1 C1/ 1 2004/ 010250 | · | ; and was (if applicable) | | | | |
| | | | | | | | | | |
| | I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. | | | | | | | | |
| | I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56. | | | | | | | | |
| | I do not know and do not believe the same was ever known or used in the United States of America before my or our invention thereof, or patented or described in any printed publication in any country before my or our invention thereof or more than one year prior to this application, that the same was not in public use or on sale in the United States of America more than one year prior to this application, that the invention has not been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representative or assigns more than twelve months (six months for designs) prior to this application, and that no application for patent or inventor's certificate on this invention has been filed in any country foreign to the United States of America prior to this application by me or my legal representatives or assigns, except as follows. I hereby claim foreign priority benefits under Title 35, United States Code, \$119(a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed: | | | | | | | | |
| | Prior Foreign Appl | | cation on which phority | is claimed. | | Priority (| laimed | | |
| Insert Priority | Thor Torcign Tippi | neudon(3) | | | | Thomy | Liamica | | |
| Information: | 2003-199683 | Japan | | July 22, 200 | 03 | \boxtimes | | | |
| (if appropriate) | (Number) | (Countr | y) | (Month/Day, | Year Filed) | Yes | No | | |
| | | | | | | | | | |
| | (Number) | (Countr | \ | (Month / Day | /Year Filed) | ∐ Yes | □ No | | |
| | (Number) | (Countr | у) | (Monuti Day) | rear riled) | ies | No | | |
| | | | | | | | | | |
| | (Number) | (Countr | y) | (Month/Day) | /Year Filed) | Yes | No | | |
| | | | | | | | | | |
| | (Number) | (Countr | ·/\ | (Month/Day) | /Voor Filed) | ☐ Yes | □ No | | |
| | (IAIIIIDEI) | (Comin | y) | (Worldi) Day) | real riled) | 1 es | NO | | |
| | I hereby claim the benefit under Title 35, United States Code, \$119(e) of any United States provisional applications(s) listed below | | | | | | | | |
| | | | | | | | | | |
| Insert Provisional Application(s): (if any) | (Application Number) | | (Filing Date) | | | | | | |
| | (Application Number) | | | (Filing Date) | | | | | |
| | All Foreign Applications, if any, for any Patent or Inventor's Certificate Filed More than 12 Months (6 Months for Designs) Prior to the Filing Date of This Application: | | | | | | | | |
| | Country | | Application Numbe | r | Date of Filing (Mont | h/Day/Year) | | | |
| nsert Requested nformation: (if appropriate) | | | | | | | | | |
| | continuation-in-part disclosed in the prior Code, §112, I acknow | application(s) United States wledge the du §1.56 which | tle 35, United States Coc listed below and, insofa and/or PCT application by to disclose information became available between ication. | r as the subject mat in the manner provid n which is material | ter of each of the cla ded by the first parag to the patentability a | ims of this appl graph of Title 35, is defined in Titl | lication is not United States le 37, Code of | | |
| nsert Prior U.S. | | | | | | | | | |
| Application(s): if any) | (Application Number | r) | (Filing Date) | | (Status - patented, po | ending, abandon | ed) | | |
| Page 1 of 2 Rev. 07/2003) | (Application Number | r) | (Filing Date) | | (Status - patented, pe | ending, abandon | ed) | | |

Attorney Docket No. 2936-0262PUS1

I hereby appoint the practitioners at CUSTOMER NO. 02292 as my attorneys or agents to prosecute this application and/or an international application based on this application and to transact all business in the United States Patent and Trademark Office connected therewith and in connection with the resulting patent based on instructions received from the entity who first sent the application papers to the practitioners, unless the inventor(s) or assignee provides said practitioners with a written notice to the contrary:

Send Correspondence to:

BIRCH, STEWART, KOLASCH & BIRCH, LLP or CUSTOMER NO. 02292

P.O. Box 747 • Falls Church, Virginia 22040-0747 Telephone: (703) 205-8000 • Facsimile: (703) 205-8050

PLEASE NOTE: YOU MUST COMPLETE **FOLLOWING:**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

| ull Name of First or Sole Inventor: nsert Name of | GIVEN NAME/FAMILY NAME | INVENTOR'S SIGNATURE | | DATE* | | | |
|---|--|---|---|--|--|--|--|
| ull Name of First or Sole Inventor: nsert Name of Inventor → nsert Date This Document is Signed | Jin SAKAMOTO | Jin SAKAMOTO | Decem | ber 20,2005 | | | |
| nsert Residence nsert Citizenship → | Residence (City, State & Country) | | CITIZENSHIP | | | | |
| | Soraku-Gun, Kyoto, Japan | | Japanese | | | | |
| nsert Post Office Address → | MAILING ADDRESS (Complete Street Address including City, State & Country) | | | | | | |
| | 24-3, Saganakahimeko, Kizu-Cho, Soraku-Gun, Kyoto 619-0222 Japan | | | | | | |
| full Name of Second Inventor, if any: | GIVEN NAME/FAMILY NAME | INVENTOR'S SIGNATURE | | DATE* | | | |
| see ahove | Kazushi YOSHIMURA | Kazushi YOSHIMUR | A Decem | ber 20,2005 | | | |
| | Residence (City, State & Country) CITIZENSHIP | | | | | | |
| | Kitakatsuragi-Gun, Nara, Japan | | Japanese | | | | |
| | MAILING ADDRESS (Complete Street Address including City, State & Country) | | | | | | |
| | 1-3-31, Taishi, Oji-Cho, Kitakatsuragi-Gun, Nara 636-0023 Japan | | | | | | |
| full Name of Third Inventor, if any: see above | GIVEN NAME/FAMILY NAME | INVENTOR'S SIGNATURE | | DATE* | | | |
| | Kenji TAKAI | Kenji TAKAL | Decem | ber 20,2005 | | | |
| | Residence (City, State & Country) | | CITIZENSHIP | | | | |
| | Yamatotakada-Shi, Nara, Japan | | Japanese | | | | |
| | MAILING ADDRESS (Complete Street Address including City, State & Country) | | | | | | |
| | 380-1-B309, Nenarigaki, Yamatotakada-Shi, Nara 635-0051 Japan | | | | | | |
| | | | | | | | |
| ull Name of Fourth Inventor, if any: | GIVEN NAME/FAMILY NAME | INVENTOR'S SIGNATURE | | DATE* | | | |
| | GIVEN NAME/FAMILY NAME Shinji YAMAGAMI | | MI Dece | DATE* ber 20,2005 | | | |
| Inventor, if any: | | | M Decem | ber 20,2005 | | | |
| Inventor, if any: | Shinji YAMAGAMI | | | ber 20,2005 | | | |
| Inventor, if any: | Shinji YAMAGAMI Residence (City, State & Country) | Shinj: YAMAGA | CITIZENSHIP | ber 20,2005 | | | |
| Inventor, if any: | Shinji YAMAGAMI Residence (City, State & Country) Nabari-Shi, Mie, Japan | Shinj: YAMAGA | CITIZENSHIP | ber 20,2005 | | | |
| Inventor, if any: see above | Shinji YAMAGAMI Residence (City, State & Country) Nabari-Shi, Mie, Japan MAILING ADDRESS (Complete Street Address) | Shinj: YAMAGA | CITIZENSHIP | ber 20,2005 | | | |
| Inventor, if any: see above | Shinji YAMAGAMI Residence (City, State & Country) Nabari-Shi, Mie, Japan MAILING ADDRESS (Complete Street Address i 3-25, Tsutsujigaokaminami, Nabari-Shi, Mie 518- | including City, State & Country) 0423 Japan INVENTOR'S SIGNATURE | CITIZENSHIP Japanese | DATE* | | | |
| to the same of Fifth Inventor, if any: | Shinji YAMAGAMI Residence (City, State & Country) Nabari-Shi, Mie, Japan MAILING ADDRESS (Complete Street Address i 3-25, Tsutsujigaokaminami, Nabari-Shi, Mie 518- GIVEN NAME/FAMILY NAME | including City, State & Country) 0423 Japan | CITIZENSHIP Japanese | DATE* | | | |
| to the same of Fifth Inventor, if any: | Shinji YAMAGAMI Residence (City, State & Country) Nabari-Shi, Mie, Japan MAILING ADDRESS (Complete Street Address i 3-25, Tsutsujigaokaminami, Nabari-Shi, Mie 518- GIVEN NAME/FAMILY NAME Yoshiyuki KITAMURA | including City, State & Country) 0423 Japan INVENTOR'S SIGNATURE | CITIZENSHIP Japanese JURA Dec | DATE* | | | |
| to the same of Fifth Inventor, if any: | Shinji YAMAGAMI Residence (City, State & Country) Nabari-Shi, Mie, Japan MAILING ADDRESS (Complete Street Address i 3-25, Tsutsujigaokaminami, Nabari-Shi, Mie 518- GIVEN NAME/FAMILY NAME Yoshiyuki KITAMURA Residence (City, State & Country) | Shinj: YAMAGA including City, State & Country) 0423 Japan INVENTOR'S SIGNATURE Yoshiyuki KITAA | CITIZENSHIP Japanese AURA Dec | DATE* | | | |
| to the same of Fifth Inventor, if any: | Shinji YAMAGAMI Residence (City, State & Country) Nabari-Shi, Mie, Japan MAILING ADDRESS (Complete Street Address i 3-25, Tsutsujigaokaminami, Nabari-Shi, Mie 518- GIVEN NAME/FAMILY NAME Yoshiyuki KITAMURA Residence (City, State & Country) Yamatokoriyama-Shi, Nara, Japan | including City, State & Country) 0423 Japan INVENTOR'S SIGNATURE Yoshiyaki KITAA | CITIZENSHIP Japanese 10RA Dec | DATE* | | | |
| Inventor, if any: see above full Name of Fifth Inventor, if any: see above | Shinji YAMAGAMI Residence (City, State & Country) Nabari-Shi, Mie, Japan MAILING ADDRESS (Complete Street Address is 3-25, Tsutsujigaokaminami, Nabari-Shi, Mie 518-GIVEN NAME/FAMILY NAME Yoshiyuki KITAMURA Residence (City, State & Country) Yamatokoriyama-Shi, Nara, Japan MAILING ADDRESS (Complete Street Address is | including City, State & Country) 0423 Japan INVENTOR'S SIGNATURE Yoshiyaki KITAA | CITIZENSHIP Japanese 10RA Dec | DATE* | | | |
| Inventor, if any: see above full Name of Fifth Inventor, if any: see above | Shinji YAMAGAMI Residence (City, State & Country) Nabari-Shi, Mie, Japan MAILING ADDRESS (Complete Street Address is 3-25, Tsutsujigaokaminami, Nabari-Shi, Mie 518-GIVEN NAME/FAMILY NAME Yoshiyuki KITAMURA Residence (City, State & Country) Yamatokoriyama-Shi, Nara, Japan MAILING ADDRESS (Complete Street Address is 1421-11, Jyo-Cho, Yamatokoriyama-Shi, Nara 638 | including City, State & Country) 0423 Japan INVENTOR'S SIGNATURE Yoshiyuki KITAA Including City, State & Country) 9-1051 Japan INVENTOR'S SIGNATURE | CITIZENSHIP Japanese OCITIZENSHIP Japanese | DATE* Cember 20,2005 | | | |
| Inventor, if any: see above full Name of Fifth Inventor, if any: see above | Shinji YAMAGAMI Residence (City, State & Country) Nabari-Shi, Mie, Japan MAILING ADDRESS (Complete Street Address is 3-25, Tsutsujigaokaminami, Nabari-Shi, Mie 518-GIVEN NAME/FAMILY NAME Yoshiyuki KITAMURA Residence (City, State & Country) Yamatokoriyama-Shi, Nara, Japan MAILING ADDRESS (Complete Street Address is 1421-11, Jyo-Cho, Yamatokoriyama-Shi, Nara 639 | Shinj: YAMAGA including City, State & Country) 0423 Japan INVENTOR'S SIGNATURE Yoshiyuki KITAA including City, State & Country) 9-1051 Japan | CITIZENSHIP Japanese OCITIZENSHIP Japanese | DATE* cember 20,2005 DATE* cember 20,2005 | | | |
| Inventor, if any: see above full Name of Fifth Inventor, if any: see above | Shinji YAMAGAMI Residence (City, State & Country) Nabari-Shi, Mie, Japan MAILING ADDRESS (Complete Street Address i 3-25, Tsutsujigaokaminami, Nabari-Shi, Mie 518- GIVEN NAME/FAMILY NAME Yoshiyuki KITAMURA Residence (City, State & Country) Yamatokoriyama-Shi, Nara, Japan MAILING ADDRESS (Complete Street Address i 1421-11, Jyo-Cho, Yamatokoriyama-Shi, Nara 639 GIVEN NAME/FAMILY NAME Hiroshi YASUMURA | including City, State & Country) 0423 Japan INVENTOR'S SIGNATURE Yoshiyuki KITAA Including City, State & Country) 9-1051 Japan INVENTOR'S SIGNATURE | CITIZENSHIP Japanese CITIZENSHIP Japanese | DATE* cember 20,2005 DATE* cember 20,2005 | | | |
| Inventor, if any: see above full Name of Fifth Inventor, if any: see above | Shinji YAMAGAMI Residence (City, State & Country) Nabari-Shi, Mie, Japan MAILING ADDRESS (Complete Street Address is 3-25, Tsutsujigaokaminami, Nabari-Shi, Mie 518-GIVEN NAME/FAMILY NAME Yoshiyuki KITAMURA Residence (City, State & Country) Yamatokoriyama-Shi, Nara, Japan MAILING ADDRESS (Complete Street Address is 1421-11, Jyo-Cho, Yamatokoriyama-Shi, Nara 639 GIVEN NAME/FAMILY NAME Hiroshi YASUMURA Residence (City, State & Country) | including City, State & Country) 0423 Japan INVENTOR'S SIGNATURE Yoshiyaki KITAA Including City, State & Country) 9-1051 Japan INVENTOR'S SIGNATURE Hiroshi YASUMUI | CITIZENSHIP Japanese OURA Dec CITIZENSHIP Japanese | DATE* cember 20,2005 DATE* cember 20,2005 | | | |

| and Manager of Courage | | INTURNITORIC CICNIATURE | | 75. | | | | |
|---|--|--------------------------|-------------------|---------------|--|--|--|--|
| full Name of Seventh Inventor, if any: see above | GIVEN NAME/FAMILY NAME | INVENTOR'S SIGNATURE | DATE* | | | | | |
| X1 11.01. | OHNO Hirotaka | Hirotaka Ohno | Dec CITIZENSHI | ember 20,2005 | | | | |
| | Residence (City, State & Country) | | | .P | | | | |
| | Ymatokoriyama-Shi, Nara, Japan | Japanese | | | | | | |
| | MAILING ADDRESS (Complete Street Address including City, State & Country) | | | | | | | |
| | 622-9, Minamikoriyama-Cho, Ymatokoriyama-Shi, Nara 639-1007 Japan | | | | | | | |
| Full Name of Eight Inventor, if any: see above | GIVEN NAME/FAMILY NAME | INVENTOR'S SIGNATURE | | DATE* | | | | |
| | Residence (City, State & Country) | | CITIZENSHIP | | | | | |
| | MAILING ADDRESS (Complete Street Address including City, State & Country) | | | | | | | |
| Full Name of Ninth | CUTENI NAME (EANAH V NAME | INVENTOR'S SIGNATURE | | DATE* | | | | |
| Inventor, if any: see above | GIVEN NAME/FAMILY NAME | INVENTORSSIGNATURE | | DATE | | | | |
| | Residence (City, State & Country) | | CITIZENSHI | (P | | | | |
| | Residence (City, State & Country) | | CITIZEIVOIII | 1 | | | | |
| | MAILING ADDRESS (Complete Street Address including City, State & Country) | | | | | | | |
| Full Name of Tenth Inventor, if any: see above | GIVEN NAME/FAMILY NAME | INVENTOR'S SIGNATURE | | DATE* | | | | |
| | Residence (City, State & Country) | | CITIZENSHII | P | | | | |
| | MAILING ADDRESS (Complete Street Address including City, State & Country) | | | | | | | |
| Full Name of Eleventh | GIVEN NAME/FAMILY NAME | INVENTOR'S SIGNATURE | | DATE* | | | | |
| Inventor, if any: see above | GIVER TRIBUTE, TRIBUTE TO THE STATE OF THE S | III VEIVIONO DICITITO IL | | | | | | |
| | Residence (City, State & Country) | | CITIZENSHII | .P | | | | |
| | 26 T D C 4 D D D C 6 T A 4 1 1 | | | | | | | |
| | MAILING ADDRESS (Complete Street Address including City, State & Country) | | | | | | | |
| Full Name of Twelfth Inventor, if any: see above | GIVEN NAME/FAMILY NAME | INVENTOR'S SIGNATURE | | DATE* | | | | |
| | Residence (City, State & Country) | | CITIZENSHII | P | | | | |
| | MAILING ADDRESS (Complete Street Address including City, State & Country) | | | | | | | |
| Full Name of Thirteenth Inventor, if any: see above | GIVEN NAME/FAMILY NAME | INVENTOR'S SIGNATURE | | DATE* | | | | |
| | Residence (City, State & Country) | | CITIZENSHII | D | | | | |
| | Residence (City, State & Country) | | CITIZENSI III | r | | | | |
| | MAILING ADDRESS (Complete Street Address including City, State & Country) | | | | | | | |

Page 3 of 3 (Rev. 07/2003)

*DATE OF SIGNATURE